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AGRICULTURAL MEMORANDUM No 377a

Gramineae Pollen in London. Revised Estimates of Total Pollen

L P SMITH

Ag Mem 377 gave a formula A, 6.4T + 8M - 106 for seasonal pollen totals in units of 100, where T refers to Kew temperatures and M to the May pollen total.

Ag Mem 379 revised this to formula B:-

$6.7T_4 + 8M - 100$ where T_4 refers to the mean temperature at four stations surrounding London.

This estimate can be revised at the end of June with formula C.

If J is total of May and June daily pollen counts (in 100s)

Seasonal Total is $1.25J - 0.6T_4 + 19$

Year	T_4	M	J	Actual Total	Estimated Totals A	error	B	error	C	error
1961	21.4	2.1	48.7	64	60	-4	60	-4	67	+3
1962	18.4	0.6	22.9	41	26	-15	28	-13	37	-4
1963	19.4	0.4	20.2	31	33	+2	33	+2	33	+2
1964	22.4	3.6	61.6	85	77	-8	79	-6	83	-2
1965	20.1	1.9	30.1	42	53	+11	50	+8	45	+3
1966	19.3	2.5	34.7	50	53	+3	49	-1	51	+1
1967	18.7	0.8	18.4	35	32	-3	32	-3	31	-4
1968	20.6	0.7	20.6	27	31	+4	28	+1	34	+7
1969	19.6	2.5	22.4	40	46	+6	51	+11	35	-5
1970	19.9	0.3	21.1	29	29	0	36	+7	33	+4
				Mean Error	5.6		5.6		3.5	

Any comments or suggestions on this paper should be referred to the author.

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